Solid Waste Stabilization and Disposition (RL-0013)/Soil and Water Remediation, Groundwater and Vadose Zone (RL-0030)/Operate Waste Disposal Facility (RL-0080)

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Bulk Waste Receipts in Trench 36 in 200 East (Contaminated Cover Blocks)

Waste returns from the off-site treatment vendor disposed of in the Mixed Waste Trench

Overview

This section addresses Project Baseline Summary (PBS) RL-0013, *Solid Waste Stabilization and Disposition*; RL-0030, *Soil and Waste Remediation Groundwater/Vadose Zone*; and RL-0080, *Operate Waste Disposal Facility.*

NOTE: Unless otherwise noted, all information contained herein is as of the end of February 2004.

Notable Accomplishments

Transuranic (TRU) Waste Program: Shipments to the Waste Isolation Pilot Plant (WIPP) totaling 13 cubic meters ($m^{3)}$ were completed in February 2004. A total of 113 m^3 have been shipped in FY 2004, versus 81 m^3 planned.

TRU Waste Retrieval: A total of 56 m^3 of suspect TRU waste was retrieved in February 2004. For FY 2004, a total of 91 m^3 has been retrieved, versus 34 m^3 planned.

Mixed Low Level Waste (MLLW) Treatment: FH dispositioned 316 m^3 of MLLW in February 2004. Since FY 2003, a total of 2,792 m^3 has been dispositioned, versus 2,480 m^3 planned. Of this volume, 1,750 m^3 is from disposal of 183 H Basin waste at the Environmental Restoration Disposal Facility (ERDF).

Liquid Waste Processing: The 200 Area Effluent Treatment Facility processed and disposed of 3.37 million gallons. FH disposed of 21.7 million gallons of waste water at the 200 Area Treated Effluent Disposal Facility (TEDF) in support of a five-day test of 242-A cooling water. The 300 Area TEDF processed and disposed of 2.7 million gallons of industrial waste water. FH continued the processing of Basin 43 Comprehensive Environmental Response Compensation and Liability Act waste.

Groundwater Remediation: A major leak in the northwestern section of 182-D reservoir was confirmed with continuous water level monitoring in three recently completed new wells. The mound created by this leak is causing major shifts in groundwater flow that may reduce the effectiveness of the existing and new In Situ Redox Manipulation (ISRM) extension. Next month FH will initiate remedial actions identified for newly identified 100-D Area chromium plume, and begin drilling 22 wells for the ISRM Barrier.

200 Area Waste Site Remedial Actions: All items are on schedule. Bullet three is newly added scope.

- Finished casing perforation and pressure grouting of 50 wells being decommissioned.
- Completed surface cleanup to complete decommissioning of 24 wells.
- Prepared Sampling and Analysis Plan to support characterization work at 216-S-7 Crib, a hexone site, for Uranium-Rich Process Waste group Operable Unit 200-PW-2.
- Completed Rev. 0 Work Plan for Plutonium/Organic-Rich waste group (200-PW-1, 200-PW-3, 200-PW-6 Operable Units).
- Completed solid waste burial grounds Operable Units (200-SW-1, 200-SW-2) collaborative meetings with regulators and RL.

FY 2004 FH Funds versus Forecast ($000)

		FY 2004 Anticipated Funding w/Carryover	FY 2004 Fiscal Year Spend Forecast	Variance
RL-0013	Solid Waste Stabilization & Disposition	$ 136,704	$ 136,472	$ 232
RL-0030	Soil & Water Remediation, Groundwater/Vadose Zone	$ 36,394	$ 35,994	$ 400
RL-0080	Operate Waste Disposal Facility	$ 3,920	$ 3,511	$ 409
	Total	**$ 177,018**	**$ 175,977**	**$ 1,041**

FY04 Schedule/Cost Performance ($000)

		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance $	Schedule Variance %	Cost Variance $	Cost Variance %	Budget At Completion
RL-0013	Solid Waste Stabilization & Disposition	56,142	59,786	51,595	3,644	6%	8,191	14%	145,534
RL-0030	Soil & Water Remediation, Groundwater/ Vadose Zone	14,089	14,266	12,347	177	1%	1,919	13%	37,876
RL-0080	Operate Waste Disposal Facility	1,131	1,126	965	-5	0%	161	14%	3,249
Total		**71,362**	**75,176**	**64,907**	**3,815**	**5%**	**10,269**	**14%**	**186,660**

NOTE: The above excludes Central Waste Complex Pool and Work for Others associated with these PBSs. Work for Others is reported in Section H. Numbers are rounded to the nearest $K and include the closure services allocation.

Schedule Performance: The PBS RL-0013 favorable schedule variance of $3,644K/6% is primarily the result of WIPP shipments being well ahead of plan due to acceleration initiatives started last spring ($11.0M). This is offset by:

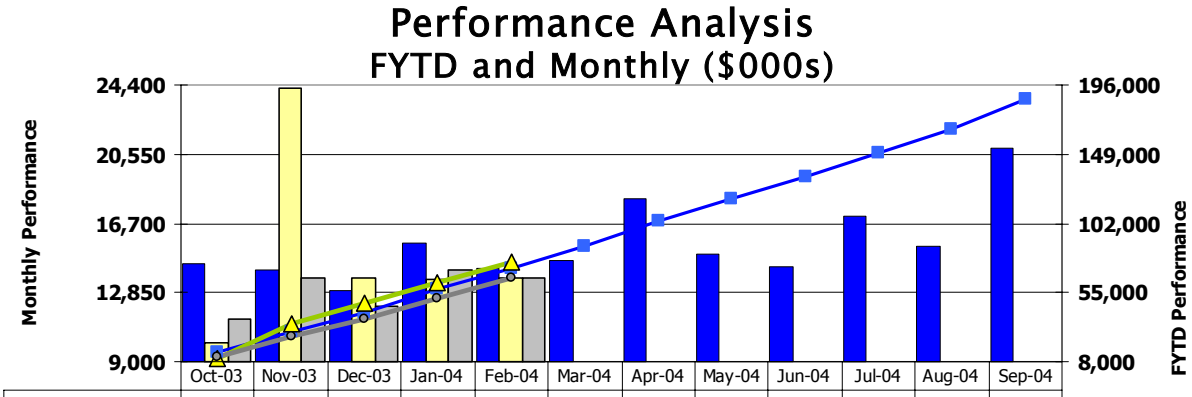
- Delays with receipt of K Basin sludge at T Plant ($-5.5M); and
- Several Waste Disposal/Groundwater Remediation projects have been deferred or cancelled to accommodate FY 2004 funding reductions ($-6.0M).

Cost Performance: The PBS RL-0013 favorable cost variance of $8,191/14% is primarily because the Waste Receiving and Packaging facility has been operating at the high end of the planned production range, and FY 2003 performance for WIPP shipments was recognized in FY 2004 ($11.1M). Also MLLW treatment includes 183-H disposal at ERDF and the off-site treatment vendor's wastes at lower unit costs through February 2004 ($2.3M). These are offset by:

- K Basin sludge preparation activities at T Plant ($-5.8M); and
- TRU retrieval proceeding with the new M-91 scope and production ($-2.4M).

The PBS RL-030 favorable cost variance of $1,919K/13% is primarily the result of a lower Closure Services cost allocation due to delays in placing new contracts while under continuing resolution.

FY 2004 Schedule/Cost Performance , continued



	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Monthly BCWS	14,455	14,064	12,997	15,618	14,229	14,637	18,049	14,964	14,273	17,057	15,401	20,918
Monthly BCWP	10,032	24,262	13,664	13,599	13,621							
Monthly ACWP	11,354	13,678	12,115	14,120	13,640							
FYTD BCWS	14,455	28,518	41,515	57,133	71,362	85,998	104,048	119,012	133,284	150,341	165,742	186,660
FYTD BCWP	10,032	34,294	47,958	61,556	75,176							
FYTD ACWP	11,354	25,032	37,146	51,267	64,907							

Milestone Achievement

M-24-00O	**Install RCRA Groundwater Monitor Wells at Rate of up to 50 in CY 2003, if required**	**TPA**	**12/31/03**	**_**	**Complete 12/30/03**
M-91-03A	**Submit Revisions to the Hanford Site TRU/TRUM and MLLW PMP to Ecology**	**TPA**	**12/31/03**	**_**	**Complete 12/31/03**
M-26-07A	**Submit Evaluation of Status of Development of Tritium Treatment Technology**	**TPA**	**3/31/04**	**3/31/04**	**On schedule**